

Outlineoffungi.org - Note 1357 *Peribolosporaceae*

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Peribolosporaceae Witfeld, M.A. Guerreiro, H.D.T. Ngyuen & Begerow

The monotypic family *Peribolosporaceae* was introduced by Witfeld et al. (2023) to accommodate *Peribolospora* Witfeld, M.A. Guerreiro, H.D.T. Ngyuen & Begerow as the monotypic genus based on phylogeny of 38 protein-coding genes, orthology analysis, and septal pore type analysis. The type species is *P. baueri* Witfeld, M.A. Guerreiro, H.D.T. Ngyuen & Begerow and *P. kevripleyi* Witfeld, M. A. Guerreiro, H.D.T. Nguyen, Begerow is the other accepted species of the genus. The taxonomic placement for this genus is within a newly described family, *Peribolosporaceae*, order, *Peribolosporales*, and class, *Peribolosporomycetes*. The *Peribolosporomycetes* is a sister lineage to all other members of *Ustilaginomycotina* (Witfeld et al. 2023). *Peribolosporaceae* consists of one genus with two species that form hyaline, triangular chlamydospores, distally produced on coiled hyphae, and ovoid and sympodial conidia. Basidiomata and basidiospores have not been observed. The septal pore is simple, without thickened septum membranes (Witfeld et al. 2023). Both species were originally found in forest soils associated with coniferous stands in Canada.

Reference

Witfeld F, Guerreiro MA, Nitsche F, Wang QM et al. 2023 – *Peribolosporomycetes* class. nov.: description of a new heat resistant and osmotolerant basidiomycete lineage, represented by *Peribolospora* gen. nov., *P. kevripleyi* sp. nov., and *P. baueri* sp. nov. *Mycological Progress* 22, 30.

Entry by

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